

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	43	bioreactor same biofilm same beads	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/30 18:50
S1	345	435/299.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/09/04 08:29
S2	48	("2522947"   "3102082"   "3281307"   "3740321").PN. OR ("3853712").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 09:30
S3	96	biofilm same slides	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 10:50
S4	64	(biofilm growth) and slides	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 10:57
S5	248	(biofilm or microorganism with layer) same growth and bioreactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 11:44
S6	22	(biofilm with growth or microorganism with layer) same slide and reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 11:57
S7	21	("3198005"   "4631961"   "4945758"   "5049492"   "5246560"   "5349874"   "5356521"   "5488856"   "5599451"   "5605836"   "5709546").PN. OR ("5928889").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 11:46

S8	21	("3198005"   "4631961"   "4945758"   "5049492"   "5246560"   "5349874"   "5356521"   "5488856"   "5599451"   "5605836"   "5709546").PN. OR ("5928889").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 11:57
S9	21	("3198005"   "4631961"   "4945758"   "5049492"   "5246560"   "5349874"   "5356521"   "5488856"   "5599451"   "5605836"   "5709546").PN. OR ("5928889").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 11:57
S10	16	(biofilm or microorganism with layer or slime layer) and slide same reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 12:18
S11	3	(biofilm or microorganism with layer or slime layer) and (slide same holder) and reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 12:19
S12	72	(biofilm or microorganism with layer or slime layer) and ( glass or beads ) with slide ) and reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 12:32
S13	1360	(biofilm or microorganism with layer or slime layer) and reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 12:34
S14	648	(biofilm or microorganism with layer or slime layer) same reactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/04 12:34

S15	19	("2956931"   "3455788"   "3691988"   "4115200"   "4432642"   "4483925"   "5017342"   "5160378"   "5326533"   "5349874"   "5462644"   "5605836"   "6051423").PN. OR ("6326190").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:45
S16	3758	biofilm or biolayer or microorganism layer and disruption with growth	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:46
S17	3758	biofilm or biolayer or microorganism layer and disruption with growth with biofilm and slide	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:51
S18	3758	biofilm or biolayer or microorganism layer and disruption with growth with biofilm and slide and @ay <= "2003"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:52
S19	3758	biofilm or biolayer or microorganism layer and disruption with growth with biofilm and slide and @ay <= "2003"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:52
S20	3758	biofilm or biolayer or microorganism layer and disruption with growth with biofilm and slide and @ay < "2003"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:53
S21	3758	biofilm or biolayer or microorganism layer and disruption with growth with biofilm and slide and @ay < "2003" and holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:53
S22	0	(biofilm or biolayer or microorganism layer) and disruption with growth with biofilm and slide and @ay < "2003" and holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:54

S23	1	(biofilm or biolayer or microorganism layer) and disruption with growth with biofilm and slide and @ay < "2003"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:54
S24	14	(biofilm or biolayer or microorganism layer) and disruption with growth with biofilm	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:55
S25	1083	(biofilm or biolayer or microorganism layer) and growth with biofilm	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 13:55
S26	8	("3402103"   "3925165"   "4760028"   "5266476").PN. OR ("5403742").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:48
S27	0	bioreactor same slide holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:49
S28	1	bioreactor and slide holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:51
S29	14	bioreactor and plate holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:52
S30	580	biofilm same production	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:58
S31	1551	biofilm same (production or formation)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:53
S32	169741	biofilm same slide or glass with plate	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 14:59
S33	631	biofilm and (slide or glass plate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:00
S34	80	biofilm and (slide or glass plate)and holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:00
S35	950	(biofilm or cell layer or microorganism layer or slime layer) and (slide or glass plate) and holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:08
S36	123	(biofilm or cell layer or microorganism layer or slime layer) and (slide or glass plate) same holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:21

S37	288	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate) with holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:26
S38	3	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate) with holder with retraction	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:28
S39	28	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate) with retraction	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:29
S40	6	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate) and holder with retraction	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:30
S41	1677	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate) and bioreactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:34
S42	5	(biofilm or cell with layer or microorganism with layer or slime layer) and (slide or glass plate)with holder and bioreactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 15:37
S43	3	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate)with holder and bioreactor	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/09/04 15:39

S44	3	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate)with holder and bioreactor	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/09/04 15:39
S45	8	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate)with holder	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 15:41
S46	0	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate) with retraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 15:42
S47	0	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate) same retraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 15:42
S48	0	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate) and holder with retraction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 15:43
S49	91	(biofilm or microbiological film or microbiological layer or microorganism layer or microorganism film or slime layer) and (slide or glass plate) and bioreactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 15:59

S50	13	microbes (layer or film) and bioreactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:03
S51	2	microbiological (layer or film) and bioreactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:04
S52	5330	biofilm or slime (layer or film) and bioreactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:05
S53	562	(biofilm or (slime (layer or film))) and bioreactor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:56
S54	0	biofilm and holder and biofilm same slides same housing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:57
S55	2	biofilm and holder and slides same housing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:58
S56	0	biofilm same slides same housing	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 16:59
S57	6	biofilm same slide same (housing or chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 17:01
S58	308	biofilm same growth same device	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 17:08
S59	1891	biofilm with (forming or formation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 17:10
S60	19	biofilm with (forming or formation) with slide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2007/09/04 17:10

S61	21	("3198005"   "4631961"   "4945758"   "5049492"   "5246560"   "5349874"   "5356521"   "5488856"   "5599451"   "5605836"   "5709546").PN. OR ("5928889").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 17:15
S62	4	bioreactor and retract \$ with holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 17:17
S63	888	bioreactor and holder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 17:18
S64	722	bioreactor and holder and layer	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/04 17:18
S65	4	bioreactor and holder and layer and biofilm	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/05 08:33
S66	56	coupon with biofilm	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/05 08:35
S67	21	coupon with biofilm and hold\$	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/05 09:05
S68	6	("1133218"   "4745801"   "4857473"   "5235863").PN. OR ("5641642").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/05 09:01
S69	4	("4530763"   "5211848"   "5486292").PN. OR ("6908556").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/05 09:03
S70	20	coupon with (biofilm or slime or microbiological layer or microorganism layer or microbiological film) and (holder or holding or hold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 09:11
S71	27	coupon with (biofilm or slime or microbiological layer or microorganism layer or microbiological film) and (holder or holding or hold or retention or retaining)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:29



S72	0	biofilm with beads same slides	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:30
S73	20	biofilm same beads same slides	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:36
S75	26	(biofilm or slime or microbiological film ) same beads same slides	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:39
S76	26	(biofilm or slime or microbiological film ) same beads same slides	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:40
S77	44	(biofilm or microorganism or microbiological film ) same beads same slides	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:50
S78	6	(biofilm or microorganism or microbiological film ) and beads same slides and coupon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:52
S79	0	(biofilm) and beads same slides and coupon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:53
S80	4	(biofilm) and beads and slides and coupon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 10:56
S81	22	(biofilm) and slides and coupon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:08
S82	227	(biofilm) and slides and beads	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:10
S83	34	(biofilm) same slides and beads	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:55
S84	0	bioreactor same slides and beads and (holding or holder or retention or retaining ) with slide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:56

S85	31	bioreactor same slides and beads and (holding or holder or retention or retaining )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:58
S86	1478	bioreactor and slides and beads and (holding or holder or retention or retaining )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 12:26
S87	61	bioreactor and (slides same beads)and (holding or holder or retention or retaining )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 11:58
S88	227	biofilm and slides and bead	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 12:56
S89	0	(axially with elongated) same (housing and bioreactor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 12:58
S90	8	( elongated) same (housing and bioreactor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 12:58
S91	0	enlogated with housing and bioreator and length with width with ratio	US-PGPUB; USPAT	ADJ	ON	2007/09/05 13:10
S92	0	enlogated with housing and bioreator and length with width with ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:10
S93	0	enlogated with housing and bioreactor and length with width with ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:10
S94	0	elongated with housing and bioreactor and length with width with ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:11
S95	0	elongated same housing and bioreactor and length with width with ratio	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:11
S96	2	elongated same housing and bioreactor and length with width	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:12

S97	5	elongated same housing and bioreactor and length and width	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:15
S98	0	axially sam elongated same housing and length and width and reactor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:19
S99	24	axially same elongated same housing and length and width and reactor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:55
S100	43	areation and length	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 13:56
S101	3	areation same length	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 14:00
S102	2091	(length same width same ratio) and reactor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 14:11
S103	103	(length same width same ratio) and bioreactor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 14:01
S104	1021	(surface area same volume) and bioreactor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/09/05 14:12
S105	0	biofilm and bireactor and slide	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/08/05 14:50
S106	92	biofilm and bioreactor and slide	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/08/05 14:50
S107	97	biofilm and bioreactor and slide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/05 14:50
S108	2	"5928889".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/05 14:52
S109	0	actuati\$ with means with holder same retracti\$ and slide	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:05
S110	0	actuati\$ with means with holder and retracti\$ and slide and bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:06
S111	0	actuati\$ with means with holder and retracti\$ and bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:06

S112	0	actuat\$ with means with holder and (retract\$ or remov\$) and bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:07
S113	0	actuat\$ with means and holder and (retract\$ or remov\$) and bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:07
S114	0	actuating with means and holder and (retract\$ or remov\$) and bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/07 16:07
S115	0	actuation with means and holder and (retract\$ or remov\$) and bioreactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 16:08
S116	1	actuation with means and bioreactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 16:08
S117	170	actuation with means and holder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 16:09
S118	40	actuation with means same holder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 16:10
S119	23356	actuating same holder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:11
S120	10757	actuating with holder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:11
S121	4501	actuating with holder and @ay<"2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:12
S122	22	actuating with holder with retraction and @ay<"2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:13
S123	43	actuating with holder same retraction and @ay<"2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:16

S124	148	actuating with holder same removal and @ay< "2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:34
S125	92	actuating with holder with removal and @ay< "2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 17:34
S126	0	actuating with holder with removal and bioreactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 18:03
S127	1	actuating with holder with removal and reactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 18:03
S128	11	length with width with bioreactor with ratio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/08/07 18:06
S129	81	surface area with volume with ratio same bioreactor	US-PGPUB; USPAT	ADJ	ON	2008/08/12 16:16
S130	17	surface area with volume with ratio same bioreactor same beads	US-PGPUB; USPAT	ADJ	ON	2008/08/12 16:16
S131	34	surface area with volume with ratio same bioreactor and beads	US-PGPUB; USPAT	ADJ	ON	2008/08/12 16:34
S132	94	actuator with rod with thread\$ same holder	US-PGPUB; USPAT	ADJ	ON	2008/08/13 09:40
S133	398	435/299.1.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/30 12:38
S134	398	435/299.1.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/30 12:40
S135	1177	435/289.1.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/30 13:04
S136	0	435/289.1 and reator	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/30 13:04
S137	403	435/289.1 and reactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/07/30 13:04

S138	0	reactor and (top or upper )with (housing ot portion )and funnel with shape (mid or middlle) with (housing or portion) and (lower or bottom) with (housing or portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 13:47
S139	0	reactor and (top or upper )with (housing or portion )and funnel with shape (mid or middlle) with (housing or portion) and (lower or bottom) with (housing or portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 13:47
S140	572	reactor and (top or upper )with (housing or portion )and (mid or middlle) with (housing or portion) and (lower or bottom) with (housing or portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 13:48
S141	119	reactor and (top or upper )(housing or portion )and (mid or middlle) (housing or portion) and (lower or bottom) (housing or portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 13:49
S142	244	422/130.ccls. and reactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 15:08
S143	610	422/129.ccls. and reactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/07/30 15:20

S144	113	( "5403742" "71" "20050061737" "54" "5342522" "63" "6235196" "63" "7326344" "63" "7479220" "63" "20060070949" "63" "20080142422" "63" "20080044850" "62" "5458779" "55" "5543039" "55" "5702604" "55" "5733454" "55" "6329196" "55" "6527948" "55" "6544421" "55" "6558549" "55" "6645374" "55" "6908547" "55" "6926830" "55" "20020020666" "55" "20020185418" "55" "20020185437" "55" "20030150798" "55" "20040079692" "55" "20040206699" "55" "20070170113" "55" "20080110828" "55" "5500353" "54" "5563069" "54" "5599451" "54" "5620891" "54" "5714379" "54" "5747311" "54" "5908555" "54" "6146532" "54" "6214088" "54" "6214088" "54" "6326191" "54" "6423229" "54" "6582596" "54" "6617155" "54" "7001519" "54" "7261811" "54" "7402248" "54" "7534601" "54" "20010002313" "54" "20020185434" "54" "20040178132" "54" "20040219657" "54"). pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/30 16:22
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